ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Solid Waste Management Works in Ward No.06, BBMP, Bangalore.

Type of Road Surface	Minimum Number of Tests as per IRC norms	Number of Test done during execution	Percentage of Tests carried out as per IRC norms
I	II	III	IV
CIVIL WORKS	13	13	100%
TOTAL	**13**	**13**	**100%**

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ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work :Solid Waste Management Works in Ward No.06, BBMP, Bangalore.

Description	Quantity	Unit	Total Number of test to be carried out as per IRC	Actual Number of Test to be conducted	% Completed
I	II	III	IV	V	IV
1) PCC 1:3:6 a)Cement b)M-Sand c)Aggregate 40MM d)Aggregate 20MM	25.18	Cum	4	4	100%
2)Cube M15	74.89	Cum	5	5	100%
3)MS Hollow Pipe-50x50mm, **MS Flats -40mmx6mm,** **MS Square Rod -16mm**	12	Sqm	3	3	100%
4) Prepolished designer tiles CC TILES	28.11	Sqm	1	1	100%
TOTAL			**13**	**13**	**100%**

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ಮಟ್ಟದ ಘನ ತ್ಯಾಜ್ಯ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-11

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-176j/CEMENT/2021-22

Date: 04.08.2021

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V Stage, Bangalore –560094.
* Name of Work	:	Solid Waste Management Works in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2021-22 Dated: 09.07.2021
* Sample ID	:	Cement
Sample Received on	:	02.08.2021
Period of Testing	:	02.08.2021 to 04.08.2021
Report Issue Date	:	04.08.2021

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2019)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2019)	190 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2019)	395 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com

e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-176j/SAND-Gradation/2021-22 04.08.2021

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V Stage, Bangalore –560094.
* Name of Work	:	Solid Waste Management Works in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2021-22 Dated: 09.07.2021
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received On	:	02.08.2021
Date of Testing	:	04.08.2021
Report Issue Date	:	04.08.2021

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.30	90-100	90-100	90-100	95-100
2.36	79.50	60-95	75-100	85-100	95-100
1.18	66.30	30-70	55-90	75-100	90-100
600 Micron	44.90	15-34	35-59	60-79	80-100
300 Micron	22.70	5-20	8-30	12-40	15-50
150 Micron	7.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :
For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :
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M/s. Civil-Tech Consultants & Engineers
Pooja K. L.
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Job No.: CTCE/BBMP/SC/W.No.06/CSR-176j/AGG/GR/2021-22 04.08.2021

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V Stage, Bangalore –560094.
* Name of Work	:	Solid Waste Management Works in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2021-22 Dated: 09.07.2021
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received on	:	02.08.2021
Date of Testing	:	04.08.2021
Report Issue Date	:	04.08.2021

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.48	95-100	85-100
20	39.36	30-70	0-20
10	16.88	10-35	0-5
4.75	3.62	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-176j/AGG/GR/2021-22

04.08.2021

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V Stage, Bangalore –560094.
* Name of Work	:	Solid Waste Management Works in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2021-22 Dated: 09.07.2021
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received on	:	02.08.2021
Date of Testing	:	04.08.2021
Report Issue Date	:	04.08.2021

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.48	95-100	85-100
20	39.36	30-70	0-20
10	16.88	10-35	0-5
4.75	3.62	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-176j/AGG/GR/2021-22

04.08.2021

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V Stage, Bangalore –560094.
* Name of Work	:	Solid Waste Management Works in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2021-22 Dated: 09.07.2021
* Sample ID	:	Coarse Aggregates (20mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963(RA-2016)
Sample Received on	:	02.08.2021
Date of Testing	:	04.08.2021
Report Issue Date	:	04.08.2021

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
40	100	100	100
20	95.94	90-100	85-100
10	36.82	25-55	0-20
4.75	3.46	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.:CTCE/BBMP/SC/W.No.06/CSR-176j/Cube/2021-22

16.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V Stage, Bangalore –560094.
* Name of the work	:	Solid Waste Management Works in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2021-22 Dated: 09.07.2021
* Sample ID	:	Platform Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	16.09.2021
Report Issue Date	:	16.09.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.09.2021	16.09.2021	8.326	256.3	11.39
2	09.09.2021	16.09.2021	8.485	262.1	11.65
3	09.09.2021	16.09.2021	8.155	271.4	12.06

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Job No.:CTCE/BBMP/SC/W.No.06/CSR-176j/Cube/2021-22 16.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
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* Name of the work	:	Solid Waste Management Works in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2021-22 Dated: 09.07.2021
* Sample ID	:	Platform Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	16.09.2021
Report Issue Date	:	16.09.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.09.2021	16.09.2021	8.235	276.3	12.28
2	09.09.2021	16.09.2021	8.474	265.4	11.80
3	09.09.2021	16.09.2021	8.372	285.1	12.67

*Information is furnished by the Customer/Representative.

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Job No.:CTCE/BBMP/SC/W.No.06/CSR-176j/Cube/2021-22 16.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V Stage, Bangalore –560094.
* Name of the work	:	Solid Waste Management Works in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2021-22 Dated: 09.07.2021
* Sample ID	:	Platform Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	16.09.2021
Report Issue Date	:	16.09.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.09.2021	16.09.2021	8.339	259.6	11.54
2	09.09.2021	16.09.2021	8.157	287.1	12.76
3	09.09.2021	16.09.2021	8.278	262.3	11.66

*Information is furnished by the Customer/Representative.

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Job No.:CTCE/BBMP/SC/W.No.06/CSR-176j/Cube/2021-22 16.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Name of the work	:	Solid Waste Management Works in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2021-22 Dated: 09.07.2021
* Sample ID	:	Platform Concrete
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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	16.09.2021
Report Issue Date	:	16.09.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.09.2021	16.09.2021	8.463	291.6	12.96
2	09.09.2021	16.09.2021	8.296	252.1	11.20
3	09.09.2021	16.09.2021	8.177	274.4	12.20

*Information is furnished by the Customer/Representative.

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Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	16.09.2021
Report Issue Date	:	16.09.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.09.2021	16.09.2021	8.352	290.4	12.90
2	09.09.2021	16.09.2021	8.174	257.0	11.42
3	09.09.2021	16.09.2021	8.195	284.2	12.63

*Information is furnished by the Customer/Representative.

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M/s. Civil-Tech Consultants & Engineers
Pooja K. L.
Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/SC/W.No.06/Hollow Pipe/2021-22 25.08.2021

TEST REPORT ON HOLLOW PIPE

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V Stage, Bangalore –560094.
* Name of work	:	Solid Waste Management Works in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2021-22 Dated: 09.07.2021
* Sample ID	:	M.S Hollow Pipe 50mmx50mm
Date of testing	:	25.08.2021
Report Issue Date	:	25.08.2021

Sl.No	Size	Width	Breadth	Weight/Rmt
1	50X50mm	50mm	50mm	1.162 Kg/mt

*Information is furnished by the Customer/Representative.

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M/s. Civil-Tech Consultants & Engineers

Pooja K.L.

Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.

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e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.:CTCE/BBMP/SC/W.No.06/MS Flat/2021-22 25.08.2021

TEST REPORT ON STRUCTURAL STEEL

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V Stage, Bangalore –560094.
* Name of Work	:	Solid Waste Management Works in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2021-22 Dated: 09.07.2021
* Sample ID	:	MS Flat 40mmx6mm
Technical Reference	:	IS 1730:1989
Date of testing	:	25.08.2021
Report Issue Date	:	25.08.2021

Sl.No	Description	Result	Tolerances as per IS 1852:1985
1	Length	1000 mm	+ 25 mm - 0.0 mm
2	Width	40.00 mm	± 1.25mm
3	Thickness	6.08 mm	± 0.2mm
4	Weight / Sqm	2.84 Kg	-

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#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
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e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.:CTCE/BBMP/SC/W.No.06/MS Square Rod/2021-22 28.08.2021

TEST REPORT ON MS SQUARE RODS

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V Stage, Bangalore –560094.
* Name of work	:	Solid Waste Management Works in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2021-22 Dated: 09.07.2021
* Sample ID	:	Square rod 16mm
Date of testing	:	28.08.2021
Report Issue Date	:	28.08.2021

Sl.No	Size	Width	Breadth	Weight/Rmt
1	16X16mm	16mm	16mm	2.011 Kg

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Pooja K-L.
Authorised Signatory

ಸಹಾಯಕ ಅಧಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ವ್ಯಾಪ್ತಿಯಾನಮದ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಮದ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-28

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Job No.: CTCE/BBMP/SC/W.No.06/CC Tiles/2021-22 28.08.2021

TEST REPORT ON CEMENT CONCRETE TILES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V Stage, Bangalore –560094.
* Name of the Work	:	Solid Waste Management Works in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2021-22 Dated: 09.07.2021
* Sample ID	:	Pre-Polished Designer Cement Concrete Tiles
No of tiles tested		12 No's
Test Method as per	:	IS: 1237(2012)
Date of Testing	:	28.08.2021
Report Issue Date	:	28.08.2021

I. DIMENSIONS TEST:

Sl. No.	Test Result			Requirement as per IS: 1237(2012)
	Length (mm)	Breadth (mm)	Thickness (mm)	
1	299	298	25.85	1. length or breadth of tiles shall be ±1 mm. 2. Thickness shall be +15 percent of the minimum thickness
2	297	300	26.12	
3	300	297	25.45	
4	298	299	26.32	
5	297	300	25.74	
6	300	298	26.38	

II. WATER ABSORPTION

Sl. No.	Size of Tiles	Water absorption of tiles (%)	Average (% by Wt)	Requirement as per IS: 1237(2012)
1	300x300x25.20	2.6	2.52	The average percentage of water absorption shall not exceed 10.
2	300x300x25.25	2.6		
3	300x300x25.35	2.7		
4	300x300x25.60	2.4		
5	300x300x25.15	2.3		
6	300x300x25.55	2.5		

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For M/s. Civil-Tech Consultants & Engineers

Pooja K. L.

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